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UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1960-61

Course in

HIGH SPEED

DATA PROCESSING

in co-operation with the
COMPUTATION CENTRE,
UNIVERSITY OF TORONTO

HIGH SPEED DATA PROCESSING

Thursdays

20 lectures

This introduction to modern high speed data processing systems provides a general background on the uses of stored programme electronic data processors in business problems. It is divided into three approximately equal sections: data processing systems, coding and programming, and applications. The section on systems is a study of the components and principles of electronic data processors. That on coding and programming introduces terminology and new ideas through a few simple problems. The last section is about the application of these new methods to insurance, inventory control, accounting, production scheduling, etc. Throughout, a special effort is made to concentrate on methods which are generally valid on modern machines and widely applicable. The course terminates with a symposium, in which representatives of manufacturing and other organizations active in this field in Canada are invited to participate.

Applicants need not have specialized knowledge of mathematics nor any knowledge of electronics. They should, however, have some interest and experience in a field where the handling of numerical data is important, such as accounting, banking, business management, investment financing or insurance.

LECTURERS: Professor C. C. Cotlieb, M.A., Ph.D.,
Chief Computer, Computation Centre.
Professor J. N. P. Hume, M.A., Ph.D.,
Department of Physics.

TIME: 7:30 p.m.
Fall Term—October 13–December 15
Winter Term—January 12–March 16

PLACE: Room 132, McLennan Laboratory.

FEE: \$50.00.

Registration:

By mail or in person at Room 207, 65 St. George Street, 9 a.m. to 5 p.m. daily, except Saturdays. Information may be obtained by telephoning WA. 3-6611 locals, 301, 304, 526, 527. In order to accommodate students and enable them to enrol during the evening, registrations will be taken:

Monday, September 12th

Monday, September 19th

from 7:30 to 9 p.m. in the Wallberg Building, corner of St. George and College Streets.

PROGRAMME

HIGH SPEED DATA PROCESSING

Data Processing Systems:

*Number of
Lectures*

Requirements of a Data Processing System
Representation of Information
Arithmetic Unit
Store
Control
Input Output Devices
Instruction Code

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Coding and Programming:

Analysing, Programming and Coding
Coding Examples
Comparative Study of Machine Techniques
Reliability and Checking
File Processing
Sorting
Automatic Programming

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Applications in some of the following areas will be studied:

Inventory Maintenance
Insurance
Production Control and Scheduling
Transportation Assignment
Warehouse Operation
Banking
Utility Accounting

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Symposium

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